

SEQUENCE LISTING

<110> Gilmore Jr., Robert D
Johnson, Barbara JB

<120> RECOMBINANT P37/FlaA AS A DIAGNOSTIC REAGENT

<130> 97,429

<140> 09/004,395

<141> 1998-01-08

<150>

<151>

<160> 06

<170> Microsoft Word 97

<210> 1

<211> 1655

<212> DNA

<213>

<220> Unknown

<221> CDS

<222> 473..1498

<221> sig_peptide

<222> 473..538

<221> mat_peptide

<222> 539..1498

<223>

<400> 1

| | |
|--|-----|
| atgataatct tttttcaaaa aaggtttttt attttcattc tagcaaaaga ttggttgcta | 60 |
| atttaagata tttaagaaat gtaaaaaatt tgaagataa tttagatctt ttagtanaag | 120 |
| attttctttt aggaagcaat gaggggtttt cttttgggtt tttatttaagt gattcaagat | 180 |
| ttttatattc ttttttaaag aatggagttt attatgtaaa tttttcaaga gaattttatg | 240 |
| attcttttaa taatggatgat tataatgaat cttttgatgt taaggtaaat ctttttgcta | 300 |
| tgttttaant aaaaacaatg cgttttaact atcttggtta gataaaaaag attattattc | 360 |

Ala Arg Lys Ala Lys Ser Ile Leu Ile Ile Leu Leu Ser Thr Val Leu

| -5 | 1 | 5 | 10 | |
|---|-----|-----|-----|------|
| cct gga gaa tta gtc tta gat ttt gcc gag ctt gca aga gat cca agt | | | | 619 |
| Pro Gly Glu Leu Val Leu Asp Phe Ala Glu Leu Ala Arg Asp Pro Ser | 15 | 20 | 25 | |
| tca act aga ctt gat ctt aca aat tat gtt gat tat gta tat tgg ggc | | | | 667 |
| Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser Gly | 30 | 35 | 40 | |
| gct tct ggt att gtt aag ccg gaa gat atg gtt gta gat ctt ggg ata | | | | 715 |
| Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly Ile | 45 | 50 | 55 | |
| aat aat tgg agc gtt tta ctt act cct tct gca agg ttg cag gct tac | | | | 763 |
| Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala Tyr | 60 | 65 | 70 | 75 |
| gtt aaa aat tca gtt gtt gcg ccc gct gtt gtt aag agt gag tca aaa | | | | 811 |
| Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser Lys | 80 | 85 | 90 | |
| agg tac gca ggt gat act att ttg ggg gta aga gtt ttg ttt cca agc | | | | 859 |
| Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro Ser | 95 | 100 | 105 | |
| tat tct caa tca tct gct atg att atg cca cca ttt aaa att cct ttt | | | | 907 |
| Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro Phe | 110 | 115 | 120 | |
| tat tca ggg gaa agt ggc aat caa ttt tta ggc aaa ggt ctt att gat | | | | 955 |
| Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile Asp | 125 | 130 | 135 | |
| aac att aaa acc atg aaa gaa att aag gta tct gtt tat agt tta ggg | | | | 1003 |
| Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu Gly | 140 | 145 | 150 | 155 |
| tat gag ata gat ctt gag gtt tta ttt gaa gat atg aat ggc atg gaa | | | | 1051 |
| Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met Glu | 160 | 165 | 170 | |
| tat gct tat tct atg ggt act tta aag ttt aaa ggg tgg gct gat tta | | | | 1099 |
| Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp Leu | 175 | 180 | 185 | |
| att tgg tca aat cct aac tat att cct aat ata tca tcc aga att att | | | | 1147 |
| Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile Ile | 190 | 195 | 200 | |
| aaa gac gat gtt cca aat tat cct ctt gct tca agt aaa atg aga ttt | | | | 1195 |
| Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg Phe | 205 | 210 | 215 | |

| | |
|---|-----|
| gct tca agt aaa atg aga ttt | 220 |
| Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg Phe | 225 |
| gct tca agt aaa atg aga ttt | 230 |
| Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg Phe | 235 |

```

255                260                265
act agc gga act gaa tcc ctt cgt aaa tta aag gca cac gaa act ttt      1387
Thr Ser Gly Thr Glu Ser Leu Arg Lys Leu Lys Ala His Glu Thr Phe
      270                275                280

aaa aga gtt tta aag ctt aga gaa aaa att tct atc gct gaa ggc tct      1435
Lys Arg Val Leu Lys Leu Arg Glu Lys Ile Ser Ile Ala Glu Gly Ser
      285                290                295

ttc caa aac ttt gta gaa aag att gag agt gaa aaa cct gaa gaa tca      1483
Phe Gln Asn Phe Val Glu Lys Ile Glu Ser Glu Lys Pro Glu Glu Ser
300                305                310                315

tct ccg aaa aat tag gtttaaatta atatgtaaag ctacctaaaa ggtttgcttt      1538
Ser Pro Lys Asn *
      320

acatattaaa ataataggaa atagtatatg gaaatattag atttggaata tgaagagctt      1598

ttaggagttt tttttgaaga agctcaaaat cttgtagata tcttgaaga gaatatt      1655

gcggccgcaa tgtgagtttt tgtagttgga tttgctcccc cgccgtcggt caatgagaat 60
ggataagagg ctcggtgggat tgacgtgagg gggcagggat ggctataatt ctgggagcga 120
actccgggag aatatgaagc gcacgcatac aagtgagttg tagggaggga accatgg 177

<210> 2
<211> 342
<212> PRT
<213> Unknown

<220>
<221>
<222>
<223>

<400> 2
ttgacgtgag ggggcaggga tggtatatatt tctgggagcg aactccgggc gaata      55

<210> 3
<211> 55
<212> DNA
<213> Mustard

<400> 3
Met Lys Arg Lys Ala Lys Ser Ile Leu Phe Phe Leu Leu Ser Thr Val
-22      -20                -15                -10

Leu Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala
      1                1                1

```

| | | |
|---|-----|-------------|
| 60 | 65 | 70 |
| Tyr Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser | | |
| 75 | 80 | 85 90 |
| Lys Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro | | |
| | 95 | 100 105 |
| Ser Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro | | |
| | 110 | 115 120 |
| Phe Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile | | |
| | 125 | 130 135 |
| Asp Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu | | |
| | 140 | 145 150 |
| Gly Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met | | |
| | 155 | 160 165 170 |
| Glu Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp | | |
| | 175 | 180 185 |
| Leu Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile | | |
| | 190 | 195 200 |
| Ile Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg | | |
| | 205 | 210 215 |
| Phe Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn | | |
| | 220 | 225 230 |
| Phe Ile Phe Tyr Val Lys Asp Leu Arg Val Leu Tyr Asp Lys Leu Ser | | |
| | 235 | 240 245 250 |
| Val Ser Ile Asp Ser Asp Ile Asp Ser Glu Ser Val Phe Lys Val Tyr | | |
| | 255 | 260 265 |
| Glu Thr Ser Gly Thr Glu Ser Leu Arg Lys Leu Lys Ala His Glu Thr | | |
| | 270 | 275 280 |
| Phe Lys Arg Val Leu Lys Leu Arg Glu Lys Ile Ser Ile Ala Glu Gly | | |
| | 285 | 290 295 |
| Ser Phe Gln Asn Ile Val Gln Lys Ile Gln Ser Gln Lys Pro Gln Gln | | |
| | 300 | 305 310 |
| Ser Ser Pro Lys Asn * | | |
| 315 | 320 | |

<210> 3
 <211> 21
 <212> DNA

<213> 4
 <214> 12
 <215> DNA

<400> 4
gatggattag cagaggggtt

19

<210> 5
<211> 21
<212> DNA
<213> Unknown

<400> 5
tgggataaat aattggagcg t

21

<210> 6
<211> 21
<212> DNA
<213> Unknown

<400> 6
ctaatttttc ggagatgatt c

21